## REMARKS

## Status of the Claims

Claims 1, 2, 4, 5 and 8-11 are currently pending in the application. Claims 1-7 stand rejected. Claims 1, 2, 4 and 5 have been amended as set forth herein. Claims 3, 6 and 7 have been cancelled herein. All amendments and cancellations are made without prejudice or disclaimer. New claims 8-11 have been added herein. No new matter has been added by way of the present amendments. Specifically, the amendments to claims 1, 2, 4 and 5 are to remove the term "derivative" and otherwise to conform the claims more closely to US format. New claims 8 and 9 are supported generally throughout the specification, and specifically at least at paragraph [0032]. Likewise claims 10 and 11 are generally supported throughout the specification, and more specifically at least at paragraph [0048], and support exists for claim 10 at least at paragraph [0039]. Reconsideration is respectfully requested.

## Objection to the Title of the Invention

The Examiner states that the Title of the Invention is not descriptive. (See, Office Action of September 21, 2007, at page 7, hereinafter, "Office Action"). To expedite prosecution, the Title of the Invention has been amended herein without prejudice or disclaimer to recite, "CHALCONE COMPOUNDS." No new matter is entered into the specification by way of this amendment. Support for the amendment may be found throughout the specification, and more specifically at least at the Abstract and paragraphs [0004]-[0009]. Applicants believe this Title is descriptive of the claimed invention.

respectfully requested.

Rejections Under 35 U.S.C. § 112, First Paragraph

Written Description

Claims 1-7 stand rejected under 35 U.S.C. § 112, first paragraph, for failing to comply

Reconsideration and withdrawal of the objection to the Title of the Invention are

with the written description requirement. (See, Office Action, at pages 2-3). Claims 3, 6 and 7

have been cancelled herein without prejudice or disclaimer, thus obviating the rejection of these

claims. Applicants traverse the rejection as to the remaining claims as set forth herein.

The Examiner states that there is no written description support for the term "derivative

thereof" in the specification. The Examiner also states that the claims are directed to utilities

which "are not practical" according to US patent law because they are "reach-through" claims

which attempt to encompass treatment or prevention of all diseases known today and that may be

discovered in the future arising from the biological mechanisms recited in the claims.

Although Applicants do not agree that the claims lack written description support in the

specification, to expedite prosecution, Applicants have amended the claims without prejudice or

disclaimer to remove the term "derivative" from the claims. Furthermore, Applicants point out

that new claims 8 and 9 are directed to specific derivatives of the claimed compounds as

supported by the specification at least at paragraph [0032].

Reconsideration and withdrawal of the written description rejection of claims 1, 2, 4 and

5 are respectfully requested.

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Enablement

Claims 1-7 stand rejected under 35 U.S.C. § 112, first paragraph, for failing to comply

with the enablement requirement. (See, Office Action, at page 3-6). Claims 3, 6 and 7 have

been cancelled herein without prejudice or disclaimer, thus obviating the rejection of these

claims. Applicants traverse the rejection as to the remaining claims as set forth herein.

The Examiner states that it would require undue experimentation to identify all of the

diseases that are caused by the mechanisms recited in the claims, and then determine a treatment

regimen that would both treat and possibly prevent the diseases associated with the biological

mechanisms identified in the claims. The Examiner further states that the specification provides

no conclusive evidence or empirical data linking the increased nitrogen monoxidase and/or

aldose reductase activity with the diseases listed on pages 12-13 of the specification.

The Examiner asserts that there is no conclusive evidence in the specification that

establishes a nexus between the diseases cited on pages 12-13 of the specification and nitrogen

monoxidase or aldose reductase activity. Applicants believe the Examiner is not taking into

consideration the knowledge of one of skill in the art on or before the filing date of the present

application which includes many well-documented relationships between NO production and

various diseases.

For instance, at paragraphs [0029] – [0032] (pages 10-11) of the specification, the

relationship between NO production and various diseases known to be related to NO production

abnormalities is disclosed. Additionally, the relationship between NO production abnormality

and cancer/inflammatory diseases is disclosed, for instance at paragraph [0030]. Further, the

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relationship between aldose reductase activity and diabetic complications is disclosed at

paragraph [0034] (page 12) of the specification. These relationships between variance beyond

normal NO production in the body and various diseases, and many more not listed, were known

to one of skill in the art on or before the filing date of the present application.

As evidence of the knowledge of one of skill in the art, the Examiner is respectfully

referred to U.S. Patent Application Publication No. 2003/0040541 A1 and U.S. Patent No.

5,635,505. The '541 publication discloses cancer and inflammatory diseases as examples of

diseases related to NO production at paragraph [0033] (pages 2-3). The '505 patent discloses

that a compound which inhibits the activity of aldose reductase is useful for the treatment of the

complications of diabetes, such as cataracts, neuroses, nephropathies and retinopathies.

Additionally, in light of the amendments to the claims and the evidence discussed above,

as disclosed in the attached publications, the presently pending claims are believed to be fully

enabled by the specification when considered in light of the knowledge of one of skill in the art

on or before the present application filing date.

The Examiner is respectfully reminded that a "patent need not teach, and preferably

omits, what is well known in the art." (See, Spectra-Physics, Inc. v. Coherent, Inc., 827 F.2d

1524, 1534 (Fed. Cir. 1987) and Hybritech v. Monoclonal Antibodies, 802 F. 2d 1367, 231

U.S.P.Q. 81 (Fed. Cir. 1986), cert, denied, 107 S. Ct. 1606 (1987)). Additionally, the MPEP

states that, "If a skilled artisan would have understood the inventor to be in possession of the

claimed invention at the time of filing, even if every nuance of the claims is not explicitly

described in the specification, then the adequate description requirement is met." (See, MPEP, at

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2163, II, A, 3, (a), citing Vas-Cath v. Mahurkar, 935 F.2d 155, at 1563, 19 USPO2d 1111, at

1116 (CAFC 1991), Martin v. Johnson, 454 F.2d 746, 751, 172 USPQ 391, 395 (CCPA 1972),

stating "the description need not be in *ipsis verbis* [i.e., "in the same words"] to be sufficient").

Reconsideration and withdrawal of the enablement rejection of claims 1, 2, 4 and 5 are

respectfully requested.

Rejections Under 35 U.S.C. § 112, Second Paragraph

Claims 1-7 stand rejected under 35 U.S.C. § 112, second paragraph, for failing to

particularly point out and distinctly claim the subject matter which Applicants regard as the

invention. (See, Office Action, at page 6). Claims 3, 6 and 7 have been cancelled herein without

prejudice or disclaimer, thus obviating the rejection of these claims. Applicants traverse the

rejection as to the remaining claims as set forth herein.

The Examiner states that the term "derivative" is not defined in the claims and that claims

3 and 4 improperly depend from claim 2.

As already discussed above, concerning the written description issues, although

Applicants do not agree that the claims are indefinite, to expedite prosecution, Applicants have

amended the claims without prejudice or disclaimer to remove the term "derivative" from the

claims. Furthermore, Applicants point out that new claims 8 and 9 are directed to specific

derivatives of the claimed compounds as supported by the specification at least at paragraph

[0032].

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Reconsideration and withdrawal of the indefiniteness rejection of claims 1, 2, 4 and 5 are

respectfully requested.

Rejections Under 35 U.S.C. § 102(b)

Claim 1 stands rejected under 35 U.S.C. § 102(b) as being anticipated by Dimmock et al.,

Current Med. Chem., 6(12):1125-1149, 1999 (hereinafter, "Dimmock et al."). (See, Office

Action, at pages 6-7). Applicants traverse the rejection as set forth herein.

The Examiner states that Dimmock et al. disclose compounds which the Examiner

concludes are reasonably within the definition of a "derivative" of the compounds recited in

claim 1.

As previously discussed, above, the term "derivative" has been removed from claim 1

without prejudice or disclaimer, thus obviating the basis for the Examiner's rejection.

Furthermore, new claims 8 and 9 encompass specific derivatives which are also not disclosed or

suggested anywhere in Dimmock et al.

Reconsideration and withdrawal of the anticipation rejection of claim 1 are respectfully

requested.

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CONCLUSION

If the Examiner has any questions or comments, please contact Thomas J. Siepmann,

Ph.D., Registration No 57,374, at the offices of Birch, Stewart, Kolasch & Birch, LLP.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future

replies, to charge payment or credit any overpayment to our Deposit Account No. 02-2448 for

any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of

time fees.

Dated: December 20, 2007

Respectfully submitted.

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Attachments: Copy of U.S. Patent Application Publication No. 2003/0040541 A1

Copy of U.S. Patent No. 5,635,505